

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|---|--|---|
| Applicant's or agent's file reference PF620PCT | FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small> | |
| International application No. PCT/US06/38756 | International filing date (day/month/year) 05 October 2006 (05.10.2006) | (Earliest) Priority Date (day/month/year) 13 October 2005 (13.10.2005) |
| Applicant HUMAN GENOME SCIENCES, INC. | | |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of:

☒
☐

the international application in the language in which it was filed.

a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 Rule 43.6 *bis(a)*

c. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

☐
☒

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

Treatment of patients with autoantibody positive disease

JMG

KAS

10-14-08
Responded to Written Opinion

5. With regard to the **abstract**,

☒
☐

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐
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as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/38756

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



on paper



in electronic form

c. time of filing/furnishing



contained in the international application as filed



filed together with the international application in electronic form



furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/38756

A. CLASSIFICATION OF SUBJECT MATTER

IPC: C12P 21/06(2006.01);C07H 21/04(2006.01);C07K 16/00(2006.01);A61K 39/395(2006.01);A61K 49/00(2006.01)

USPC: 435/69.1;536/23.5;530/387.1;424/139.1;424/9.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/69.1; 536/23.5; 530/387.1; 424/139.1; 424/9.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
PubMed

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
sequences searched in SCORE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|------------------------------------|
| X | BRAM et al. US Patent 5969102, issued 19 October 1999 (19.10.1999) | 1, 2, 4-6, 8, 13-14, 16 and 18-19 |
| X | RUBEN et al. US 2003/0223996 A1, published 4 December 2003 (04.12.2003) | 1, 2, 4-7, 11-14, and 16-19 |
| X | GROSS et al. WO 200040716 A2, published 13 July 2000 (13.07.2000) | 1, 2, 4-6, 9, 13-14, 16 and 18-19 |
| X | GROSS et al., WO 200238766, Published 16 may 2002 (16.05.2002) | 1, 2, 4-6, 9, 13-14, 16, and 18-19 |
| Y | Arthritis and Rheumatism, Volume 50(11), published November 2004, pages 3418-3426. | 1, 18-19, 21-34, 56-69 |
| Y | LOONEY R.J. Rheumatology, Volume 44, Supplement 2, pages ii13-ii17. | 1, 3, 13-15, 18 and 20. |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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| * Special categories of cited documents: | |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" earlier application or patent published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search

03 June 2008 (03.06.2008)

Date of mailing of the international search report

14 JUL 2008

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